UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,918	01/24/2006	Hisanori TSUBOI	112857-521	7765
	7590 08/14/200 & LLOYD, LLP	EXAMINER		
P. O. BOX 113	5		HESS, BRUCE H	
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			08/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commence	10/565,918	TSUBOI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bruce H. Hess	1794			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on 24 Ja	nuarv 2006.				
· <u> </u>	·				
<i>i</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) <u>23-44</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>23-44</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine	r				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
Information Disclosure Statement(s) (PTO/SB/08) Notice of Informal Patent Application Paper No(s)/Mail Date 01/24/06, 07/17/06 and 10/16/07. 6) Other:					



Application No.

Application/Control Number: 10/565,918 Page 2

Art Unit: 1794

1. Claims 23-27 and 29-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Gunze et al. (JP 2001-001645) in view of the patent to Nakamura (JP 07-228048).

The primary reference teaches a reversible multicolor recording medium comprising a substrate coated with a plurality of recording layers that differ in hue.

LTHC material is employed in association with the coloring material. The secondary reference teaches the advantages (e.g., the ability to obtain different hues) of using a mixture of LTHC material which absorb at different wavelengths. Consequently, use of a mixture of LTHC material in the multicolor recording medium of the primary reference as suggested by the secondary reference in order to obtain different hues would have been obvious to one of ordinary skill in this art in the absence of unexpected results.

2. Claims 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over the patent to Gunze et al. in view of the patent to Nakamura taken with either of the patents to Ishida et al. (JP 59-089192) or Tsuboi et al. (JP 2004-155010).

The primary and secondary references are discussed above. The tertiary references teach that LTHC material is routinely added directly into the recording layers of multicolor recording media. Given the cost savings of not having to apply separate layers, incorporation of the primary reference's LTHC material into the recording layers would have been obvious to one of ordinary skill in this art in the absence of unexpected results.

Application/Control Number: 10/565,918 Page 3

Art Unit: 1794

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bruce H. Hess whose telephone number is (571)-272-

1525. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Milton Cano can be reached on (571)-272-1398. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bruce H Hess Primary Examiner

Art Unit 1794

/Bruce H Hess/

Primary Examiner, Art Unit 1794